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INDUSTRIAL RADIATION SURVEY NUMBER 27-MH-8444-98 NAS JACKSONVILLE FL
6/29/1998
U S ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE

U.S. Army Center for Health Promotion and Preventive Medicine

USCHPPM

INDUSTRIAL RADIATION SURVEY NO. 27-MH-8444-98
DEFENSE REUTILIZATION AND MARKETING OFFICE
JACKSONVILLE, FLORIDA
29-30 JUNE 1998

Readiness Thru Health

U.S. Army Center for Health Promotion and Preventive Medicine

The lineage of the U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) can be traced back over 50 years. This organization began as the U.S. Army Industrial Hygiene Laboratory, established during the industrial buildup for World War II, under the direct supervision of the Army Surgeon General. Its original location was at the Johns Hopkins School of Hygiene and Public Health. Its mission was to conduct occupational health surveys and investigations within the Department of Defense's (DOD's) industrial production base. It was staffed with three personnel and had a limited annual operating budget of three thousand dollars.

Most recently, it became internationally known as the U.S. Army Environmental Hygiene Agency (AEHA). Its mission expanded to support worldwide preventive medicine programs of the Army, DOD, and other Federal agencies as directed by the Army Medical Command or the Office of The Surgeon General, through consultations, support services, investigations, on-site visits, and training.

On 1 August 1994, AEHA was redesignated the U.S. Army Center for Health Promotion and Preventive Medicine with a provisional status and a commanding general officer. On 1 October 1995, the nonprovisional status was approved with a mission of providing preventive medicine and health promotion leadership, direction, and services for America's Army.

The organization's quest has always been one of excellence and the provision of quality service. Today, its goal is to be an established world-class center of excellence for achieving and maintaining a fit, healthy, and ready force. To achieve that end, the CHPPM holds firmly to its values which are steeped in rich military heritage:

★ *Integrity is the foundation*
★ *Excellence is the standard*
★ *Customer satisfaction is the focus*
★ *Its people are the most valued resource*
★ *Continuous quality improvement is the pathway*

This organization stands on the threshold of even greater challenges and responsibilities. It has been reorganized and reengineered to support the Army of the future. The CHPPM now has three direct support activities located in Fort Meade, Maryland; Fort McPherson, Georgia; and Fitzsimons Army Medical Center, Aurora, Colorado; to provide responsive regional health promotion and preventive medicine support across the U.S. There are also two CHPPM overseas commands in Landstuhl, Germany and Camp Zama, Japan who contribute to the success of CHPPM's increasing global mission. As CHPPM moves into the 21st Century, new programs relating to fitness, health promotion, wellness, and disease surveillance are being added. As always, CHPPM stands firm in its commitment to Army readiness. It is an organization proud of its fine history, yet equally excited about its challenging future.

DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
5158 BLACKHAWK ROAD
ABERDEEN PROVING GROUND, MARYLAND 21010-5422

REPLY TO
ATTENTION OF

EXECUTIVE SUMMARY
INDUSTRIAL RADIATION SURVEY NO. 27-MH-8444-98
DEFENSE REUTILIZATION AND MARKETING OFFICE
JACKSONVILLE, FLORIDA
29-30 JUNE 1998

1. PURPOSE. -This survey was performed to assist in your efforts to use sources of ionizing radiation safely and in accordance with current regulatory requirements.

2. CONCLUSIONS. A review of the findings indicated that no health hazards were identified, and the overall Radiation Protection Program was conducted in accordance with current regulatory requirements for radiation protection.

3. RECOMMENDATIONS. Ensure that all new employees are familiar with the standing operating procedure with respect to the policy on receiving items that contain radioactive material. Request the Environmental Office at the Naval Air Station, Jacksonville, evaluate the elevated readings measured throughout the Salvage Yard.

DEPARTMENT OF THE ARMY
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE
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REPLY TO
ATTENTION OF

MCHB-DC-OIP

17 SEP 1998

INDUSTRIAL RADIATION SURVEY NO. 27-MH-8444-98
DEFENSE REUTILIZATION AND MARKETING OFFICE
JACKSONVILLE, FLORIDA
29-30 JUNE 1998

1. REFERENCES. See Appendix A for a list of references.

2. AUTHORITY. Interagency Support Agreement "W23MWP-95-003" between the U.S. Center for Health Promotion and Preventive Medicine (USACHPPM) and the Defense Logistics Agency (DLA), effective until 21 May 1999.

3. PURPOSE. This survey was performed to assist in your efforts to use sources of ionizing radiation safely and in accordance with (IAW) current regulatory requirements. Specifically, this service was performed to:

a. Identify radioactive commodities that may have entered the Defense Reutilization and Marketing Office (DRMO) through supply channels. Alert you to any previously unknown potential health hazards or areas of noncompliance with regulatory requirements associated with the use of these sources.

b. Provide recommendations to correct health hazards, ensure regulatory compliance, and improve your Radiation Protection Program.

c. Give onsite advice to further assist in improving your program.

d. The main facility as well a satellite site in Mayport was surveyed.

4. GENERAL.

a. An entrance interview was held at the Mayport site with Mr. Howard Fox, Defense Logistics Agency Civilian (DLAC), Site Manager, DRMO, Jacksonville, Florida. An entrance briefing was conducted at the Jacksonville site with Mr. Bill Davis, DLAC, Acting Manager and Mr. Jim Horsesly, DLAC, Site Foreman, DRMO, Jacksonville, Florida.

b. The USACHPPM survey team consisted of SSG David M Collins, Health Physics Specialist, Industrial Health Physics Program, USACHPPM.

c. An exit briefing, to include a discussion of the findings and recommendations, was provided at Mayport on 29 June 1998 and to the Acting Chief, DRMO, Jacksonville on 30 June 1998.

d. Instrumentation used was the Eberline Model ASP-1, Serial Number 2871 with a SPA-3 Probe, High Energy 2" x 2" NaI(Tl) Gamma Scintillator, calibrated 11 May 1998.

e. Appendix B contains a list of abbreviations used in this report.

5. FINDINGS.

a. General.

(1) Radiation protection support is provided by the Industrial Hygiene Office of the Naval Air Station, Jacksonville.

(2) The Radiation Protection Officer provides a periodic walk-through of the DRMO for qualitative exposure measurements and observational purposes to ensure that items containing radioactive material are not being processed through the activity. However, the walk-through surveys were not documented and available for review.

b. Radioactive Materials. The USACHPPM survey team performed a walk-through of the DRMO storage yards and warehouses that were currently being utilized by the Mayport and Jacksonville sites for the DRMO. No observable exposure measurements above normal background readings were noted in the DRMO areas. However, the survey team observed elevated radiation exposure levels in different areas of the Jacksonville DRMO. The survey team determined the elevated levels were being emitted from the soil and not from items stored in the DRMO. See the discussion paragraph.

c. Records, Reports, and Surveys. The documentation for the periodic surveys conducted by the Industrial Hygienist of the DRMO were not available for review.

6. DISCUSSION. During the course of the survey, we observed elevated radiation exposure readings in different areas of the Jacksonville DRMO. It was determined that the elevated readings were coming from the surface of the soil and not from items that were received and stored by the DRMO. Radiation levels taken on contact with the soil surface was measured to be as high as 18K counts per minute (cpm) compared to a background of 500 cpm. Interviews with on site personnel indicate that the elevated levels may be a result of contaminates remaining from the smelter and salvage operations conducted in the 1950-60 era. This potential contamination was brought to the attention of Mr. Jeff Pfannis, DRMS. Mr Phannis stated that the grounds used by the DRMO is owned by the Naval Air Station Jacksonville (NAS JAX). Ms. Diane Lancaster, Installation Restoration Manager, NAS JAX was contacted and she and the survey officer reviewed the areas of elevated readings. Prior to departing, the survey officer provided an awareness briefing to all available DRMO employees to explain the elevated readings detected and to communicate the health and safety concerns associated with the radiation exposure levels present. Workers were offered an opportunity to ask question of the survey officer.

7. CONCLUSION. A review of the findings indicated the following:

a. No health hazards were identified.

b. The overall Radiation Protection Program was conducted IAW current regulatory requirements for radiation protection.

8. RECOMMENDATION.

a. Ensure that all new employees are familiar with the standing operating procedure with respect to the policy on receiving items that contain radioactive material.

b. Request the Industrial Hygiene Officer provide a documented walk-through at least every 6 months and before any auctions, if applicable.

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c. Maintain close contact with the NAS Jacksonville Installation Restoration Manager to ensure proper documentation of the level of contamination is maintained for decommissioning purposes.

DAVID M. COLLINS
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Health Physics Specialist
Industrial Health Physics Program

APPROVED:

HARRIS EDGE
Program Manager
Industrial Health Physics

APPENDIX A

REFERENCES

1. DLAR 1000.28, Occupational Ionizing Radiation Personnel Dosimetry, 30 June 1995.

2. DLAR 1000.30, Personnel Dosimetry Guidance and Dose Recording Procedures for Personnel Occupationally Exposed to Ionizing Radiation, 30 June 1995.

3. DLAM 4145.8, Radioactive Commodities in the DoD Supply System, 19 April 1985.

4. DLAR 4145.23, Radioactive Materials in the DLA Supply System, 14 August 1991.

5. DLAM 6055.1, DLA Safety and Health Manual, 22 August 1985.

6. Title 10, Code of Federal Regulations (CFR), 1996 rev., Part 19, Notices, Instructions and Reports to Workers; Inspection.

7. Title 10, CFR, 1996 rev., Part 20, Standards for Protection Against Radiation.

APPENDIX B

ABBREVIATIONS

cpm	Counts per minute
DLA	Defense Logistics Agency
DLAC	Defense Logistics Agency Civilian
DRMO	Defense Reutilization and Marketing Office
DRMS	Defense Reutilization Marketing Services
IAW	in accordance with
NAS	Naval Air Station Jacksonville
RPO	Radiation Protection Officer
SN	Serial Number
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine